CYBERVIEW®

User Manual

S217 / 219 SUN LCD Keyboard Drawer

- With KVM Options
- 2U 17", 19" screen size
- Designed for SUN Solaris

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1.1 Important Safeguards

Chapter 1

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

■ Any product, on which the serial number has been defaced, modified or removed.

■ Damage, deterioration or malfunction resulting from:

☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.

☐ Repair or attempted repair by anyone not authorized by us.

☐ Any damage of the product due to shipment.

☐ Removal or installation of the product.

☐ Causes external to the product, such as electric power fluctuation or failure.

☐ Use of supplies or parts not meeting our specifications.

☐ Normal wear and tear.

☐ Any other causes which does not relate to a product defect.

■ Removal, installation, and set-up service charges.

1.2 Regulatory Notice

Legal Information

First English printing, October 2002
Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40º Celsius (104º Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

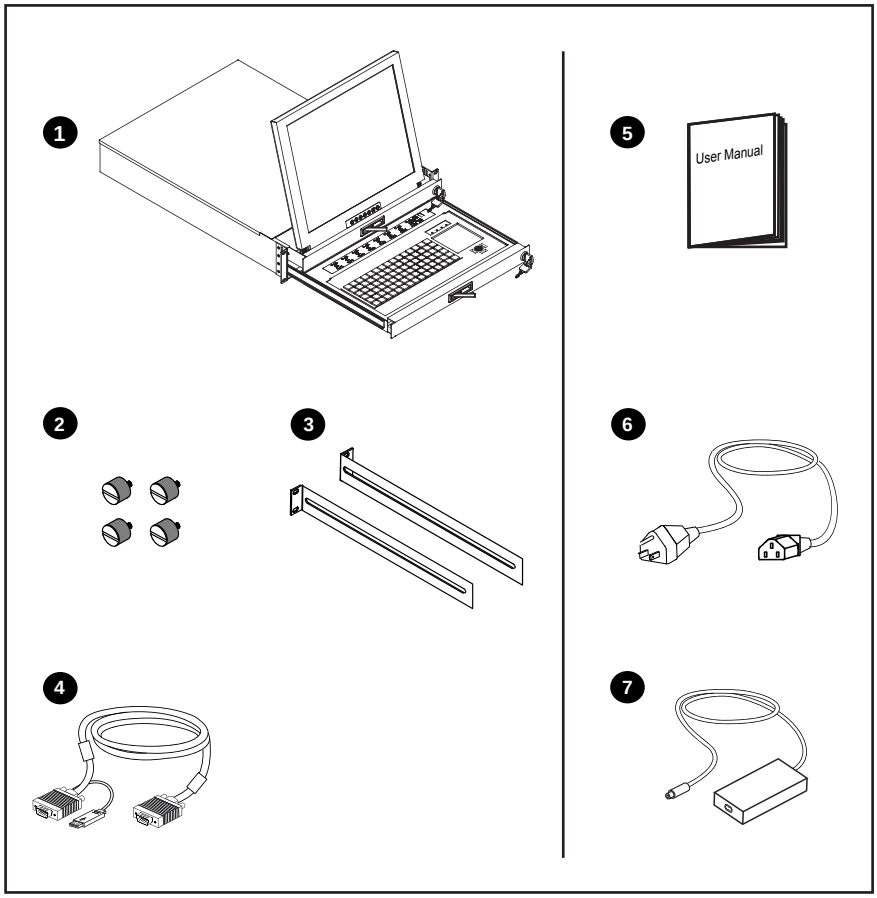
Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

1.3 Package Contents

Chapter 1



① LCD keyboard drawer x 1 pc

② Fasteners for rear L-bracket x 4 pcs

③ 330mm rear mounting L-bracket x 1 pair
* S217 / 219 series mounting depth-adjustable from 270 to 870mm

④ **CB-6** 2-in-1 USB KVM cable x 1 pc

⑤ User manual x 1 pc

⑥ Power cord x 1 pc

⑦ Auto switch power adapter (for external power version) x 1pc

1.4 Before Installation

- It is very important to locate the LCD Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Position LCD Keyboard Drawer with respect to related facilities.

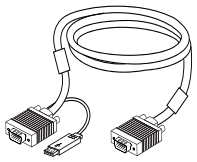
1.5 Unpacking

The LCD keyboard drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

1.6 Optional Accessories

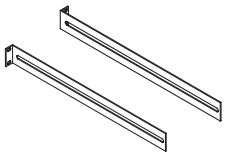
1. USB 2-in-1 KVM cable

1.1 CB-6 6 feet
1.2 CB-10 10 feet
1.3 CB-15 15 feet



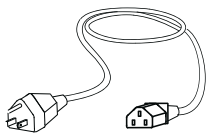
2. Extended rear mounting L-bracket

4.1 430mm (16.9") extended rear L-bracket for :
S217 / 219 series up to 970mm
*Extended rear L-bracket in tailor-made length on request



3. **Power Cord**

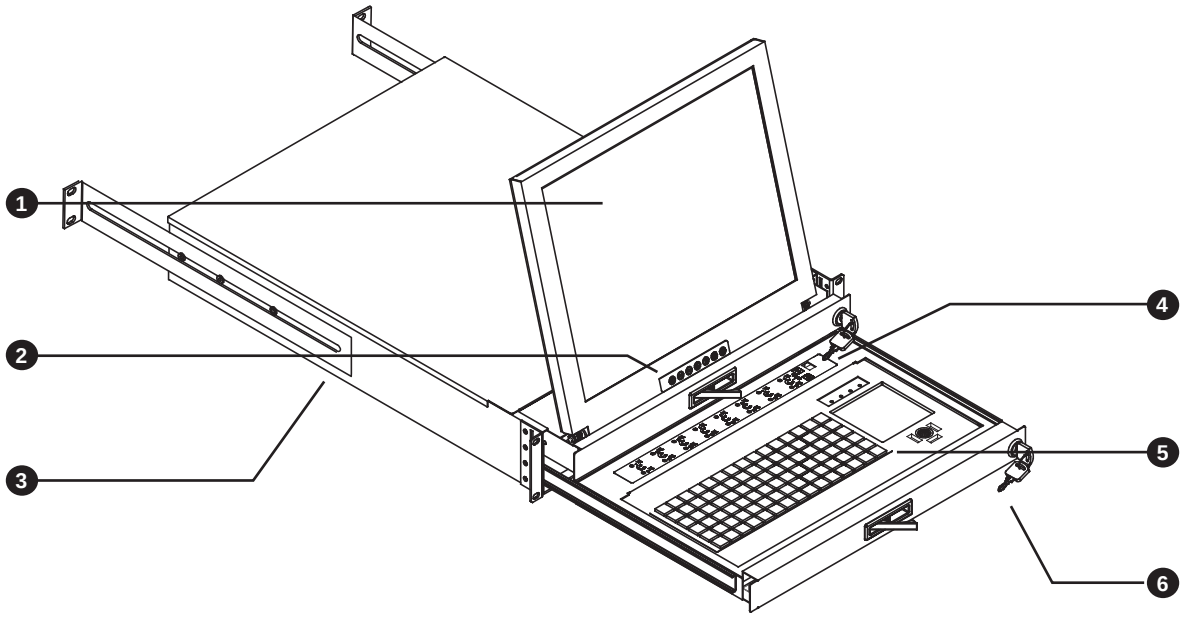
3.1 IEC power cord
3.2 NEMA 5-15 power cord (US)
3.3 BS 1363 power cord (UK)
3.4 CEE 7/4 power cord (German)
3.5 AS 3112 power cord (Australia)



1.7 Peripheral Products

Item	Model No.	Description
DB-15 KVM	CV-S801 / CV-S1601	8 / 16-port USB KVM
Cat5 KVM	UIP-1602 / UIP-3202 U-1602 / U-3202 U1601 / U3201	16 / 32-port IP Cat5 KVM 16 / 32-port two console Cat5 KVM 16 / 32-port high density Cat5 KVM
KVM Extender	CV-S101	Cat5 USB KVM Extender

1.8 Structure Diagram



① SAMSUNG Class A TFT LCD panel

② LCD membrane

③ Adjustable rear mounting L-bracket

④ Micro-switch for LCD auto ON /OFF

⑤ SUN-compatible keyboard incorporates SUN keys

⑥ Membrane switch (KVM option)

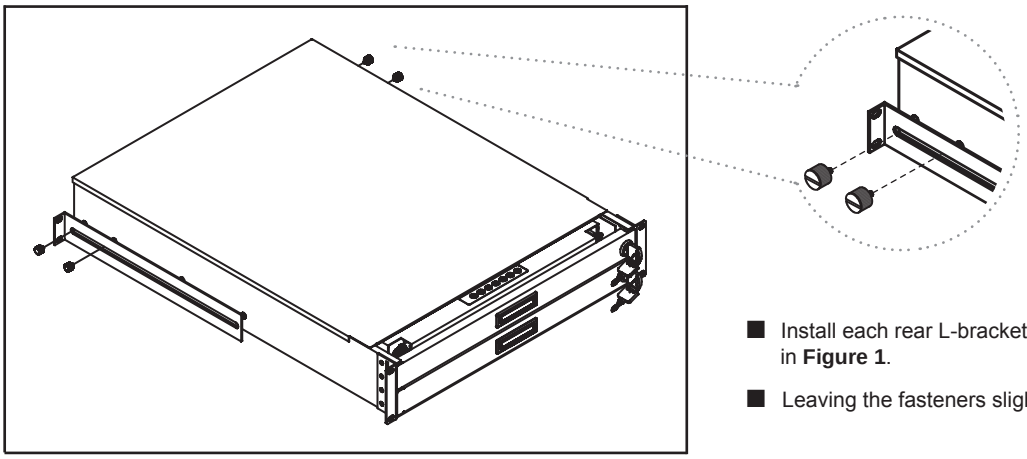


Figure 1. Installing the rear L-bracket to the LCD keyboard drawer.

- Install each rear L-bracket using two fasteners shown in **Figure 1**.
- Leaving the fasteners slightly loose.

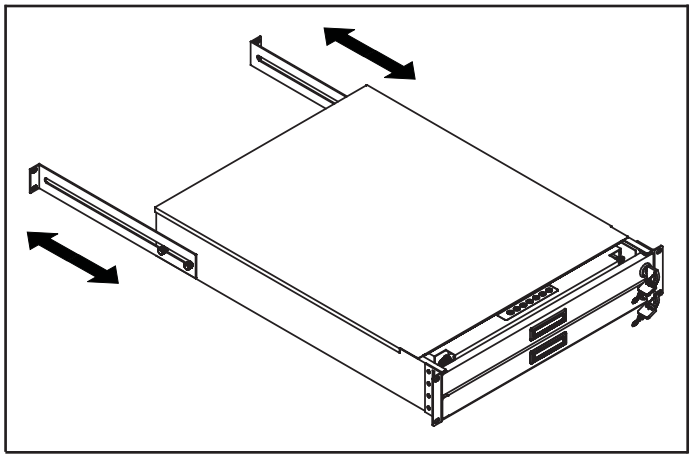


Figure 2. Aligning the rear L-brackets to a suitable length for the rack.

- Measure the front and rear mounting depth of the rack.
- Align each rear L-bracket to a suitable length and tighten the fasteners shown in **Figure 2**.

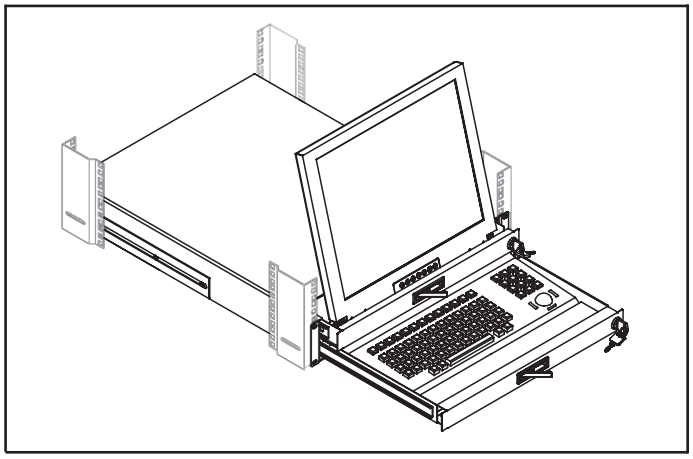


Figure 3. Fixing the LCD keyboard drawer into the rack.

- Fix the LCD keyboard drawer into the rack.

*** Hardware (screws and cage nuts) for fixing the mounting bracket to the rack is not provided.**

1.10 How to Use The Dual slide

Figure 4. Pulling the handle toward the front of keyboard drawer.

■ Gently pull the handle toward the front of the lower keyboard drawer (shown in **Figure 4**).

Figure 5. Pulling the handle toward the front of LCD drawer.

■ Push the handle toward the front of the upper LCD drawer (shown in **Figure 5)**.

Figure 6. Flipping up the LCD to a suitable angle.

■ Flip up the LCD to a suitable angle shown in **Figure 6**.

Figure 7. Operating the LCD keyboard drawer.

■ Operate the LCD keyboard drawer shown in **Figure 7**.

1.11 Connect to Server via USB Interface

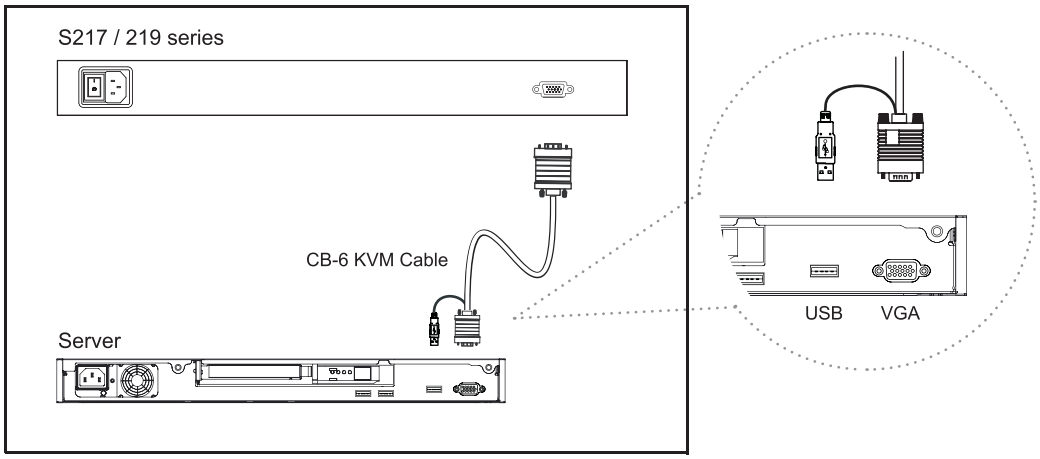


Figure 8. Example of connecting CB-6 2-in-1 USB KVM cable to server via USB interface

1.12 Connect to KVM via USB Interface

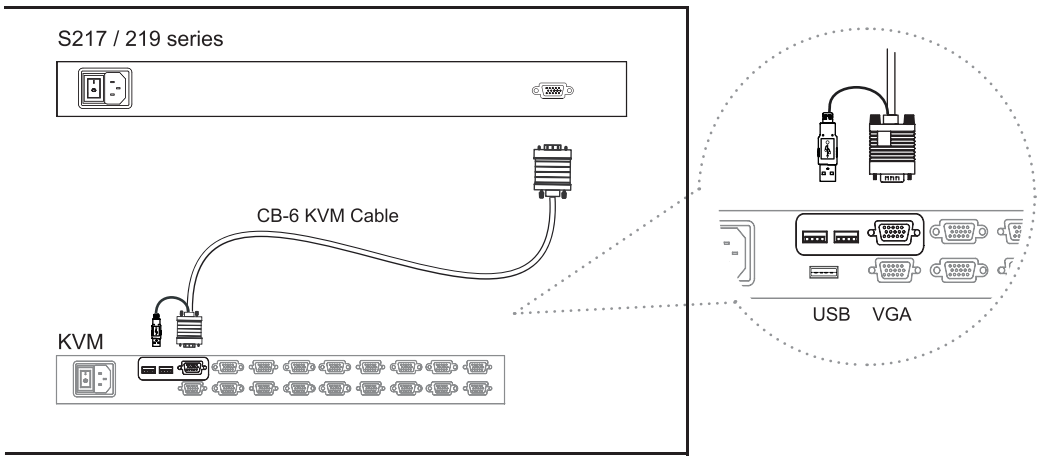


Figure 9. Example of connecting CB-6 2-in-1 USB KVM cable to KVM via USB interface

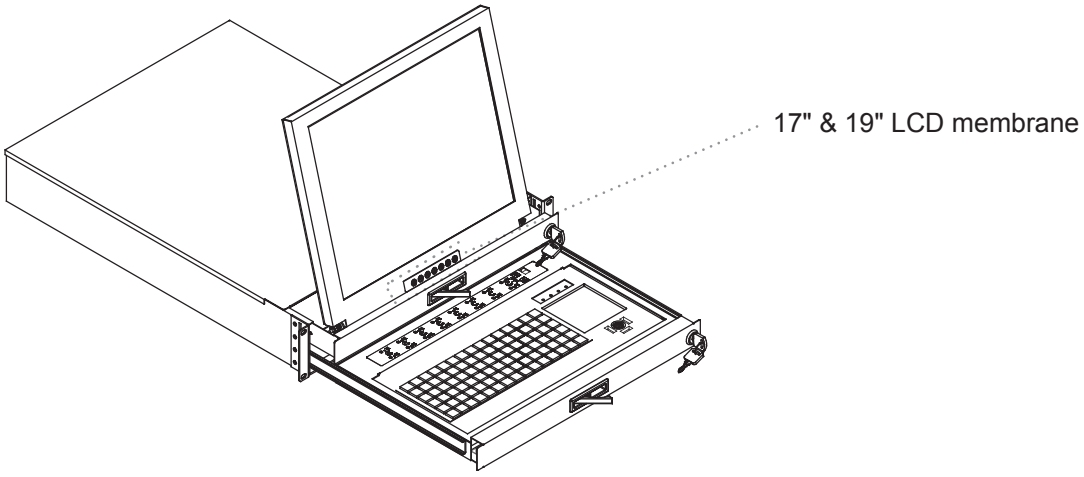
Remarks :

- The above connection is only for the LCD keyboard without KVM switch built-in.
- For the LCD keyboard drawer with KVM switch built-in, please refer to attached KVM switch user manual.

Caution : The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The company is not responsible for damage caused in this way.

2.1 On-screen Display Operation

Chapter 2



Membrane Switch	Function
○ ● ●	Power light Green = On Orange = Power saving
⏻	Power on / off LCD
M	Display the OSD menu
◇ ◇ ◇ ◇	Scrolls through menu options and adjusts the displayed control
↩	Exit the OSD screen Shortcut key to auto adjustment by pressing the button for 5 seconds or Toggle analog, digital & video connection (DVI-D and video options only)

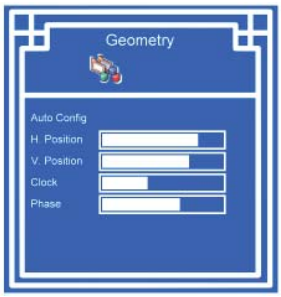
2.2 On-screen Menu

Chapter 2

1. Image

Brightness:	Adjust background black level of the screen image
Contrast:	Adjust the difference between the image background (black level) and the foreground (white level)
Sharpness:	Adjust the image from weak to sharp
Saturation:	Adjust the saturation of the image color
Hue:	Adjust the screen hue value

2. Geometry



Auto Config:	Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion.An “ Adjusting” message is displayed during the process.
H. Position:	Align the screen image left or right
V. Position:	Align the screen image up or down
Clock :	Adjust the clock value
Phase:	Adjust the phase value

3. Function

OSD Position:	Adjust OSD menu horizontal and vertical position
OSD Zoom:	Adjust the difference between the image background (black level) and the foreground (white level).
Color Temp:	Select the screen color - 5500K, 6500K & 9500K. The factory default is 6500 K.

4. System

Language:	Select the language in which the OSD menu is displayed - English, Chinese (中文), Japanese (日本語), German, French, Spanish, Italian.
Time:	Function is not supported
Power OFF:	Function is not supported
Reset:	Recall returns the adjustments back to factory settings.

Note : The current resolution and refresh rate information show on the top right hand side of the screen when the LCD is powered on.

3.1 Specifications

Chapter 3

Item	Description	
Form Factor	1U rack mounting on slide-out rails	
LCD Manufacturer	SAMSUNG	
Diagonal Size	17" TFT	19" TFT
Resolution	1152 x 900 (Direct)	1152 x 900 (Direct)
	1280 x 1024 (Native)	1280 x 1024 (Native)
Brightness (cd/m²)	300	300
Color Support	16.2 Mil.	16.7 Mil.
Contrast Ratio (typ.)	700:1	1000:1
Viewing Angle (H/V)	150˚ x 135˚	160˚ x 160˚
Display Area (mm)	337 x 270	376 x 301
Tr Response Time (ms)	2	1.3
VGA Signal Input	Analog RGB, 0.7Vp-p	
Sync. Type	Separate H/V, Composite, SOG	
Resolution	640 x 350, 70Hz	
	720 x 400, 70Hz	
	640 x 480, 60 / 72 / 75Hz	
	800 x 600, 60 / 70 / 72 / 75Hz	
	1024 x 768, 60 / 70 / 72/ 75Hz	
	1152 x 864, 60 / 70 /75Hz	
	1152 x 900, 66 / 76Hz	
	1280 x 1024, 60 / 70 /75Hz	
Plug & Play DDC	EDID 1.3	
Console Port (Combo)	3-in-1 DB-15 connector for VGA / keyboard /mouse Support USB & PS/2 servers or KVM switches	
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz	
Power Consumption	Max. 40 Watt, Standby 5 Watt	
Compatilibity	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs.	
Regulation Approval	FCC, CE	

Options

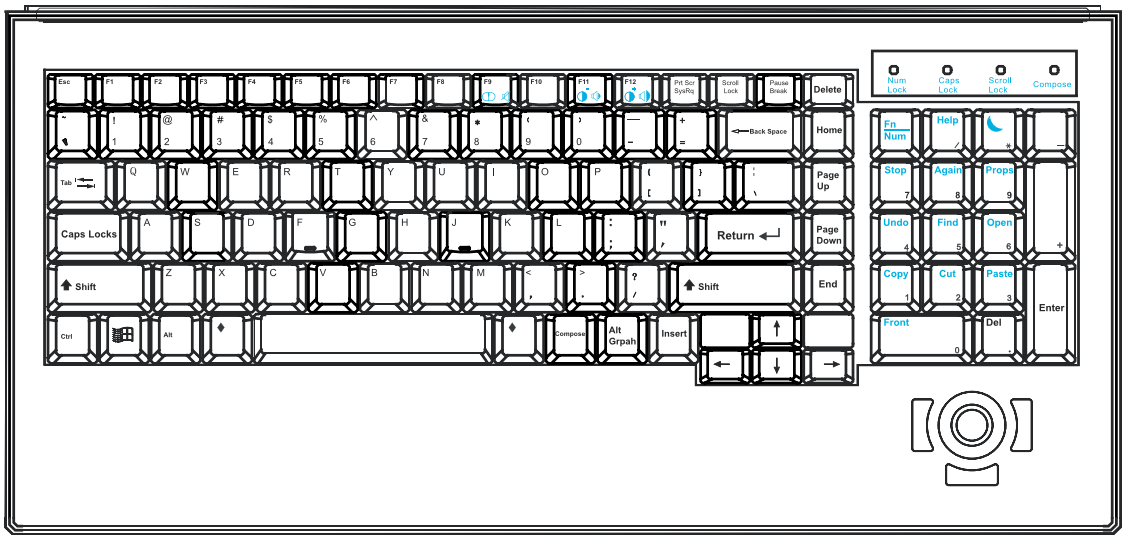
KVM Integration	Cat5 & DB-15 KVM with IP console and 2-console selection
Keyboard & mouse	Full-size multilingual keyboard with touchpad or trackball
DC Power	DC power input with 12V, 24V, 48V selection

Environmental

Operation	0˚ to 50˚C Degree
Storage	-5˚ to 65˚C Degree
Relative Humidity	5~90%, non-condensing
Shock	10G acceleration (11ms duration)
Vibration	5~500Hz 1G RMS random vibration

S

Supporting layouts only



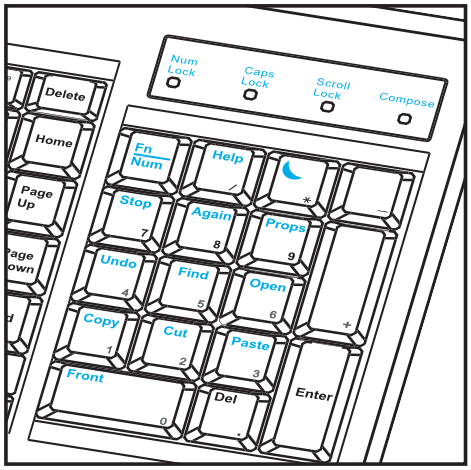
S keyboard integrated with touchpad

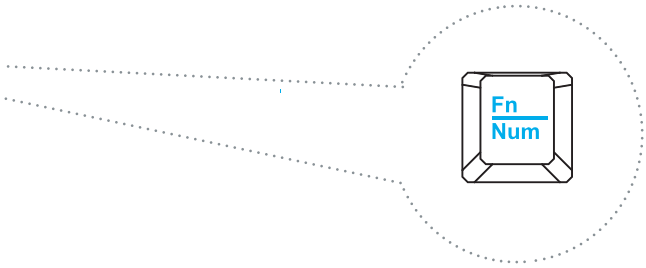
SOLARIS®

- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- US layout only
- USB interface

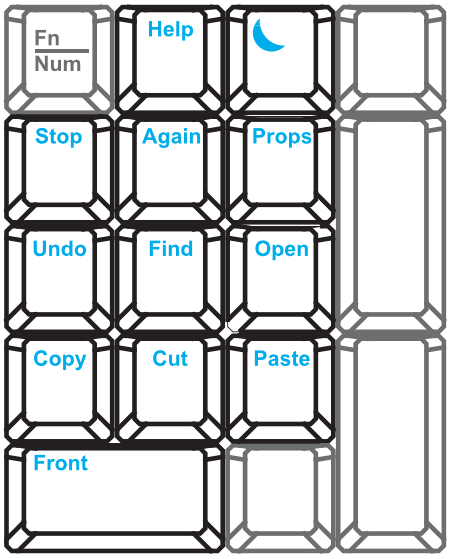
3.3 How to Use "S" Keyboard

■ SUN-compatible keyboard incorporates SUN short-cut keys.



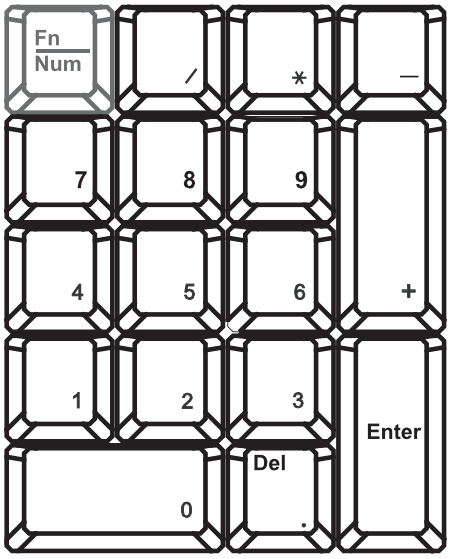


■ Press the Fn/Num button to switch the color the Num LED.



Num LED in Blue mode

Key pad behaves as a SUN Solaris system administration command mode



Num LED in Green color

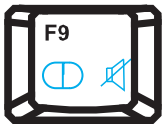
Key pad behaves as a normal key pad mode

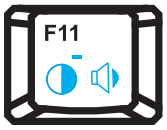
Three Audio / Display keys are located in the upper-right corner of the keyboard:

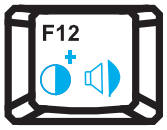
■ Audio : Mute, decrease in volume and increase in volume.

■ Display : Degauss, decrease contrast and increase contrast.

■ Please ask your supplier for full details







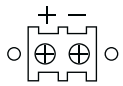
4.1 KVM Options

Chapter 4

Our KVM is designed to seamlessly integrate into the rear of our full range of LCD drawer solutions:

- For KVM operation, please refer to "Integrated LCD KVM Switch" user manual
- Option with high desnsity Cat5 KVM with either 16 or 32 ports
- Option with cost efficient DB-15 KVM integration with either 8 or 16 ports
- Please ask your supplier for full KVM details

4.2 DC Power Options



Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

Remarks :

- Package does not include power cord and AC power adapter

5.1 Troubleshooting

Chapter 5

1. How can I adjust the monitor resolution to 1152 x 900 for SUN Micro system ?

The NS solution LCD keyboard drawer will automatically detect the 1152 x 900 resolution, so no user configuration should be necessary.

2. How do I adjust the resolution in MS Windows operation system?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

3. The Stop-A hot key is not work in Trusted Solaris

The keyboard combination Stop-A (L1-A) is not available in Trusted Solaris by default. The security administrator can change this.

4. Is interference signal appeared on LCD normal when shutting down the computer ?

In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

5. The membrane button power light is not ON

Press the power On /Off on LCD membrane button to check if the monitor is in the ON mode.
Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

6. Screen image is not centered or sized properly

Press the button for two seconds to automatically adjust the image.
Adjust the H-position and V-position settings via On-screen menu.

7. Is the LCD keyboard drawer hot-pluggable ?

The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard receives power.

6.1 Dimensions

Chapter 6

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
S217 series	442 x 600 x 88 mm 17.4 x 23.6 x 3.5"	581 x 753 x 216 mm 22.9 x 29.6 x 8.5"	18 kg 40 lb	24 kg 53 lb
S219 series	442 x 600 x 88 mm 17.4 x 23.6 x 3.5"	581 x 753 x 216 mm 22.9 x 29.6 x 8.5"	19 kg 42 lb	25 kg 55 lb

The company reserves the right to modify product specifications without prior notice and assumes no reponsibility for any error which may appear in this publication.

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